

QP Code: 311020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Supplementary Examinations
October 2021
Metabolism II**

(2016 Scheme)

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay

(2x15=30)

1. Give an account of the chemistry, sources, RDA, biochemical functions and deficiency manifestations of Vitamin A.
2. Describe heme synthesis and its regulation. Add a note on porphyrias.

Short Essay

(2x10=20)

3. Discuss protein energy malnutrition. Add a note on biological value of proteins.
4. Describe the biological functions of calcium. Add a note on calcium homeostasis.

Short Answers

(6x5=30)

5. Vitamin B₁₂
6. Basal metabolic rate
7. Dietary fibre
8. Actions of insulin
9. Formation and fate of bilirubin
10. Thyroid hormones

Comment on

(10x2=20)

11. Pellagra
12. Nitrogen balance
13. Obstructive jaundice
14. Trace elements
15. Scurvy
16. GIT hormones
17. Myoglobin
18. Balanced diet
19. Catecholamines
20. Secondary messengers
